2 Lardinar



RAW SEQUENCE LISTING

DATE: 07/10/2002

PATENT APPLICATION: US/09/679,664

TIME: 11:06:28

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4 <110> APPLICANT: NPS PHARMACEUTICALS, INC.
        STORMANN, Thomas
 7 <120> TITLE OF INVENTION: G-PROTEIN FUSION RECEPTORS AND CHIMERIC GABAB RECEPTORS
 9 <130> FILE REFERENCE: 072827-1801
11 <140> CURRENT APPLICATION NUMBER: US 09/679,664
12 <141> CURRENT FILING DATE: 2000-10-03
14 <150> PRIOR APPLICATION NUMBER: US 60/080,671
15 <151> PRIOR FILING DATE: 1998-04-03
17 <150> PRIOR APPLICATION NUMBER: PCT/US99/07333
18 <151> PRIOR FILING DATE: 1999-04-02
20 <160> NUMBER OF SEQ ID NOS: 57
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22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 612
26 <212> TYPE: PRT
27 <213> ORGANISM: Human
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31 <223> OTHER INFORMATION: CaR extracellular domain
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42 Ile Leu Gly Gly Leu Phe Pro Ile His Phe Gly Val Ala Ala Lys Asp
                              40
45 Gln Asp Leu Lys Ser Arg Pro Glu Ser Val Glu Cys Ile Arg Tyr Asn
                          55
48 Phe Arg Gly Phe Arg Trp Leu Gln Ala Met Ile Phe Ala Ile Glu Glu
                      70
51 Ile Asn Ser Ser Pro Ala Leu Leu Pro Asn Leu Thr Leu Gly Tyr Arg
                                       90
54 Ile Phe Asp Thr Cys Asn Thr Val Ser Lys Ala Leu Glu Ala Thr Leu
              100
                                   105
57 Ser Phe Val Ala Gln Asn Lys Ile Asp Ser Leu Asn Leu Asp Glu Phe
                              120
                                                   125
60 Cys Asn Cys Ser Glu His Ile Pro Ser Thr Ile Ala Val Val Gly Ala
                           135
63 Thr Gly Ser Gly Val Ser Thr Ala Val Ala Asn Leu Leu Gly Leu Phe
                      150
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66 Tyr Ile Pro Gln Val Ser Tyr Ala Ser Ser Ser Arg Leu Leu Ser Asn
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                  165
69 Lys Asn Gln Phe Lys Ser Phe Leu Arg Thr Ile Pro Asn Asp Glu His
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RAW SEQUENCE LISTING
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TIME: 11:06:28

Input Set : A:\Pto.amc

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75	Val	Gly	Thr	Ile	Ala	Ala	Asp	Asp	Asp	Tyr	Gly	Arg	Pro	Gly	Ile	Glu
76		210					215	-	•	-	_	220				
78	Lys	Phe	Arq	Glu	Glu	Ala	Glu	Glu	Arg	Asp	Ile	Cys	Ile	Asp	Phe	Ser
	225		,			230			_	-	235	-		_		240
81	Glu	Leu	Ile	Ser	Gln	Tyr	Ser	Asp	Glu	Glu	Glu	Ile	Gln	His	Val	Val
82					245	•		-		250					255	
84	Glu	Val	Ile	Gln	Asn	Ser	Thr	Ala	Lys	Val	Ile	Val	Val	Phe	Ser	Ser
85				260					265					270		
87	Gly	Pro	Asp	Leu	Glu	Pro	Leu	Ile	Lys	Glu	Ile	Val	Arg	Arg	Asn	Ile
88	_		275					280	-				285	-		
90	Thr	Gly	Lys	Ile	Trp	Leu	Ala	Ser	Glu	Ala	Trp	Ala	Ser	Ser	Ser	Leu
91		290	•		-		295				_	300				
93	Ile	Ala	Met	Pro	Gln	Tyr	Phe	His	Val	Val	Gly	Gly	Thr	Ile	Gly	Phe
	305					310					315	-				320
96	Ala	Leu	Lys	Ala	Gly	Gln	Ile	Pro	Gly	Phe	Arg	Glu	Phe	Leu	Lys	Lys
97			1		325					330	_				335	•
99	Val	His	Pro	Arq	Lys	Ser	Val	His	Asn	Gly	Phe	Ala	Lys	Glu	Phe	Trp
100				340					345				-	350		_
102	Glu	Glu	ı Thi	. Phe	e Asr	Cys	His	Leu	Gln	Glu	Gly	Ala	Lys	Gly	Pro	Leu
103			355			-		360			•		365			
105	Pro	va]	Asp	Thr	: Phe	Leu	Arq	Gly	His	Glu	Glu	Ser	Gly	Asp	Arg	Phe
106		370					375					380				
108	Ser	Asr	ı Sei	Ser	Thr	Ala	Phe	Arg	Pro	Leu	Cys	Thr	Gly	Asp	Glu	Asn
	385					390		-			395		_			400
111	Ile	Ser	s Sei	. Val	Glu	Thr	Pro	Tyr	· Ile	Asp	Tyr	Thr	His	Leu	. Arg	Ile
112					405					410					415	
114	Ser	Туг	Asr	ı Val	Туг	Leu	Ala	Val	Tyr	Ser	Ile	Ala	His	: Ala	Leu	Gln
115		_		420					425					430		
117	Asp	Ile	э Туг	Thr	. Cys	Leu	Pro	Gly	Arg	Gly	Leu	Phe	Thr	Asn	Gly	ser
118			435	5				440	ı				445	,		
120	Cys	Ala	Asp	ıle	. Lys	Lys	Val	Glu	Ala	Trp	Gln	Val	Leu	Lys	His	Leu
121		450					455					460				
123	Arg	His	Leu	ı Asr	n Phe	e Thr	Asn	Asn	Met	Gly	Glu	Gln	Val	Thr	Phe	Asp
	465					470					475					480
126	Glu	Суя	Gly	/ Asp	Leu	ı Val	Gly	Asn	Tyr	Ser	Ile	Ile	Asn	Trp	His	Leu
127					485					490					495	
129	Ser	Pro	Glu	Asp	Gly	/ Ser	Ile	Val	Phe	Lys	Glu	Val	Gly	Туг	Tyr	Asn
130				500					505					510		
132	Val	Туг	Ala	Lys	Lys	Gly	Glu	Arg	Leu	Phe	Ile	Asn	Glu	Glu	Lys	Ile
133			515	<u>, </u>				520					525	,		
135	Leu	Trp	Ser	Gly	Phe	e Ser	Arg	Glu	Val	Pro	Phe	Ser	Asn	Суѕ	Ser	Arg
136		530)				535					540				
138	Asp	Суя	Leu	Ala	Gly	Thr	Arg	Lys	Gly	Ile	Ile	Glu	Gly	Glu	Pro	Thr
139	545					550					555					560
1 4 1	CVS	Cve	Dhe	Clu	CVC	: Val	Glu	Cvc	Dro	Agn	C1 v	G1n	Tur	Ser	· Acn	Gln
14 I	Cys		LIIC	GIU			Giu	Cys	110			GIU		001		
141		Cyc	, , ,	. 010	565		Giu	Суз	110	570		GIU	ıyı	001	575	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/679,664

DATE: 07/10/2002
TIME: 11:06:28

Input Set : A:\Pto.amc

144 145	Thr	Asp	Ala	Ser 580	Ala	Cys	Asn	Lys	Cys 585	Pro	Asp	Asp	Phe	Trp 590	Ser	Asn
	Glu	Δen	Hic		Ser	Cvs	Ile	Δla		Glu	Tle	Glu	Phe		Ser	Trp
148	OIU	non	595	1 111	JCI	CYD	110	600	1,5	O.L.	110	Olu	605	Lea	001	115
-	Thr	Glu		Phe				000					005			
151		610	110	1 110												
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167					5					10					15	
169	Ala	Gly	Gly	Ala	Gln	Thr	Pro	Asn	Ala	Thr	Ser	Glu	Gly	Cys	Gln	Ile
170		_	_	20					25					30		
172	Ile	His	Pro	Pro	Trp	Glu	Gly	Gly	Ile	Arg	Tyr	Arg	Gly	Leu	Thr	Arg
173			35					40					45			
175	Asp	Gln	Val	Lys	Ala	Ile	Asn	Phe	Leu	Pro	Val	Asp	Tyr	Glu	Ile	Glu
176		50					55					60				
178	Tyr	Val	Cys	Arg	Gly	Glu	Arg	Glu	Val	Val	Gly	Pro	Lys	Val	Arg	Lys
179						70					75					80
181	Cys	Leu	Ala	Asn	Gly	Ser	Trp	Thr	Asp	Met	Asp	Thr	Pro	Ser	Arg	Cys
182					85					90					95	
184	Val	Arg	Ile	Cys	Ser	Lys	Ser	Tyr		Thr	Leu	Glu	Asn		Lys	Val
185				100					105					110		
	Phe	Leu	Thr	Gly	Gly	Asp	Leu		Ala	Leu	Asp	Gly		Arg	Val	Asp
188			115					120					125			_
	Phe		Cys	Asp	Pro	Asp	Phe	His	Leu	Val	Gly		Ser	Arg	Ser	Ile
191	_	130					135		_	_	_	140	_	~ 1		_
	_	Ser	Gln	Gly	Gln	_	Ser	Thr	Pro	Lys		His	Cys	GIn	Val	
	145	_,	_		~	150		_		**- 1	155	- 1 -	01	. 1 -	T	160
	Arg	Thr	Pro	His		Glu	Arg	Arg	Ala		Tyr	ше	GIY	Ala		Pne
197	_		_	a.)	165	-	_	a 1	a 1	170	. 1 -	a -	a1	D	175	17- 7
	Pro	Met	Ser	_	GIY	Trp	Pro	GIŸ		GIn	Ата	Cys	GIN		Ala	Vai
200	a1	34-4	3.1	180	01	1	17-1	3	185	1	A	7	т1.	190	Dwo	3.00
							Val								PIO	ASP
							II i a								C 1 77	Cln
	_		Leu	гåг	Leu	TTe	His 215	HIS	ASP	ser	гуз	220	АБР	PIO	GTÀ	GIII
206		210	Tira	m	Lou	Tree		Lou	Lou	Фил	λαn		Dro	Tlo	Luc	Tlo
		1111	гуѕ	тАт	ьeu	230	Glu	ьeu	ьeu	т Ат	235	nsp	PIU	116	гур	240
	225	Lou	Mot	Dro	Clu		Ser	Sor	Va 1	Ser		T.e.u	Val	Δla	Glu	
211	тте	ьец	Met	F10	245	Cys	261	Ser	val	250	1111	Deu	V CLI	пта	255	лта
	Δla	Δra	Met	Trn		Leu	Ile	Va 1	T.611		Tur	Glv	Ser	Ser		Pro
214	ъта	пту	rie L	260	വുവ	LCU	11C	+ u 1	265	JUL	- 1 -	0 ± 1	501	270	J C 1	110
	Ala	Len	Ser		Ara	Gln	Arg	Phe		Thr	Phe	Phe	Ara		His	Pro
2 I /	nia	neu	JCI	11311	9	0111	9	1110	110	1111			9			0

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DATE: 07/10/2002

PATENT APPLICATION: US/09/679,664 TIME: 11:06:28

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223	Gly	Trp	Lys	Lys	Ile	Ala	Thr	Ile	Gln	Gln	Thr	Thr	Glu	Val	Phe	Thr
	305	•	1	_		310					315					320
226	Ser	Thr	Leu	Asp	Asp	Leu	Glu	Glu	Arq	Val	Lys	Glu	Ala	Gly	Ile	Glu
227					325				,	330	1			-	335	
	Ile	Thr	Phe	Ara	Gln	Ser	Phe	Phe	Ser	Asp	Pro	Ala	Val	Pro	Val	Lys
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	Asn	Leu	Lys	Arq	Gln	Asp	Ala	Arg	Ile	Ile	Val	Gly	Leu	Phe	Tyr	Glu
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	385	1	1	-		390				-	395			•		400
		Lvs	Ile	Tyr	Asp	Pro	Ser	Ile	Asn	Cys	Thr	Val	Asp	Glu	Met	Thr
242		4		1	405					410			-		415	
	Glu	Ala	Val	Glu	Glv	His	Ile	Thr	Thr	Glu	Ile	Val	Met	Leu	Asn	Pro
245				420	-				425					430		
247	Ala	Asn	Thr	Arq	Ser	Ile	Ser	Asn	Met	Thr	Ser	Gln	Glu	Phe	Val	Glu
248			435	_				440					445			
250	Lys	Leu	Thr	Lys	Arg	Leu	Lys	Arg	His	Pro	Glu	Glu	Thr	Gly	Gly	Phe
251	-	450		-			455	_				460		_	_	
253	Gln	Glu	Ala	Pro	Leu	Ala	Tyr	Asp	Ala	Ile	Trp	Ala	Leu	Ala	Leu	Ala
	465					470	-				475					480
256	Leu	Asn	Lys	Thr	Ser	Gly	Gly	Gly	Gly	Arg	Ser	Gly	Val	Arg	Leu	Glu
257			_		485					490					495	
259	Asp	Phe	Asn	Tyr	Asn	Asn	Gln	Thr	Ile	Thr	Asp	Gln	Ile	Tyr	Arg	Ala
260				500					505					510		
262	Met	Asn	Ser	Ser	Ser	Phe	Glu	Gly	Val	Ser	Gly	His	Val	Val	Phe	Asp
263			515					520					525			
265	Ala	Ser	Gly	Ser	Arg	Met	Ala	Trp	Thr	Leu	Ile	Glu	Gln	Leu	Gln	Gly
266		530					535					540				
268	Gly	Ser	Tyr	Lys	Lys	Ile	Gly	Tyr	Tyr	Asp	Ser	Thr	Lys	Asp	Asp	
269						550					555					560
271	Ser	Trp	Ser	Lys	Thr	Asp	Lys	Trp	Ile	Gly	Gly	Ser	Pro	Pro	Ala	Asp
272					565					570					575	
274	Gln	Thr	Leu	Val	Ile	Lys	Thr	Phe	Arg	Phe	Leu	Ser	Gln	_		
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				ICE:		_			_				_	_	_	_
		GIY	Pro	GLY		Pro	Phe	Ala	Arg		GTY	Trp	Pro	Leu	Pro	ьeu
291	Τ				5					10					15	

RAW SEQUENCE LISTING

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Input Set : A:\Pto.amc

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	Glu	Arg 50		Ala	Val	Tyr	Ile 55		Ala	Leu	Phe	Pro 60		Ser	Gly	Gly
	Trp	Pro	Gly	Gly	Gln			Gln	Pro	Ala			Met	Ala	Leu	
303		1	_	_	_	70	_	- 1	_		75	_	a 1	-	.	80
306		Val			85					90					95	
308 309	Ile	His	His	Asp 100	Ser	Lys	Cys	Asp	Pro 105	Gly	Gln	Ala	Thr	Lys 110	Tyr	Leu
311 312	Tyr	Glu	Leu 115	Leu	Asn	Tyr	Asp	Pro 120	Ile	Lys	Ile	Ile	Leu 125	Met	Pro	Gly
	Cvs	Ser		Val	Ser	Thr	Leu		Ala	Glu	Ala	Ala		Met	Trp	Asn
315	2	130					135					140	_		-	
317	Leu	Ile	Val	Leu	Ser	Tyr	Gly	Ser	Ser	Ser	Pro	Ala	Leu	Ser	Asn	Arg
	145					150					155					160
	Gln	Arg	Phe	Pro		Phe	Phe	Arg	Thr		Pro	Ser	Ala	Thr		His
321	_	_	1	_	165	T	T	nh -	a 1	170	CT	a 1	M	T	175	Tlo
324		Pro		180					185					190		
	Ala	Thr		Gln	Gln	Thr	Thr		Val	Phe	Thr	Ser		Leu	Asp	Asp
327	_		195	_		_	- 1	200	a 1	~ 1	a.1	~ 1	205	D.I		01
	Leu	Glu	Glu	Arg	vaı	Lys	215	Ala	GTĀ	шe	GIU	220	Thr	Рпе	Arg	GIN
330	Cor	210 Phe	Dho	Cor	A cn	Dro		Val	Dro	Wa l	Tve		LOU	Lve	Δτα	Gln
	225	Pne	Pne	ser	ASP	230	мта	vai	PIU	val	235	ASII	Бец	цуз	лгу	240
		Ala	Ara	Tle	Tle		Glv	Leu	Phe	Tvr		Thr	Glu	Ala	Ara	
336	p	1114	1119	110	245	, 41	011			250					255	-1-
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339			•	260		_			265					270		
341	Trp	Phe	Leu	Ile	Gly	${\tt Trp}$	Tyr		Asp	Asn	Trp	Phe	Lys	Ile	Tyr	Asp
342			275					280				_	285	_		
	Pro	Ser	Ile	Asn	Cys	Thr		Asp	Glu	Met	Thr		Ala	Va⊥	Glu	GLY
345	TT 2	290	m 1	m b	<i>c</i> 1	т1.	295	Wot	Lou	A an	Dro	300	Nan	Thr.	λνα	cor
	305	Ile	THE	THI	GIU	310	Val	мес	ьец	ASII	315	Ата	ASII	1111	Arg	320
		Ser	λan	Mot	Thr		Cln	Glu	Dho	Va 1		T.372	T.on	Thr	Lve	
351	шe	ser	ASII		325		GIII	Giu				цуз		1111	335	nrg
	Leu	Lys	Ara				Glu	Thr								
354	200	_15		340		014	024		345	1				350		
356	Ala	Tyr	Asp		Ile	Trp	Ala	Leu	Ala	Leu	Ala	Leu	Asn	Lys	Thr	Ser
357		-	355			-		360					365			
359	Gly	Gly	Gly	Gly	Arg	Ser	Gly	Val	Arg	Leu	Glu	Asp	Phe	Asn	Tyr	Asn
360		370					375					380				
		Gln	Thr	Ile	Thr	_	Gln	Ile	Tyr	Arg		Met	Asn	Ser	Ser	
363		~ 1	~ 1		_	390		**- *	1	n.l.	395	. 1	a -	a 1	<i>α</i> -	400
365	Phe	Glu	GLY	Va⊥	Ser	GIA	Hls	val	val	Pne	Asp	Ата	ser	GTÀ	ser	arg

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/679,664

DATE: 07/10/2002 TIME: 11:06:29

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07102002\1679664.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 13
Seq#:21; N Pos. 38

Seq#:40; N Pos. 3178,3179,3180,3181,3182,3183,3184,3185,3186,3187,3188,3189

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Seq#:40; N Pos. 3214,3215,3216,3217,3218,3219,3220,3221,3222,3223,3224,3225

Seq#:40; N Pos. 3226,3227,3228,3229,3230,3231,3232,3233,3234,3235,3236,3237

Seq#:40; N Pos. 3238,3239,3240

Seq#:45; Xaa Pos. 464 Seq#:50; Xaa Pos. 379 VARIABLE LOCATION SUMMARY

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DATE: 07/10/2002 TIME: 11:06:29

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07102002\1679664.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of $\langle 220 \rangle$ to $\langle 223 \rangle$ is MANDATORY if n's or Xaa's are present. in $\langle 220 \rangle$ to $\langle 223 \rangle$ section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:4; Xaa Pos. 13

Seq#:21; N Pos. 38

Seq#:40; N Pos. 3178,3179,3180,3181,3182,3183,3184,3185,3186,3187,3188,3189

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Seq#:40; N Pos. 3238,3239,3240

Seq#:45; Xaa Pos. 464

Seq#:50; Xaa Pos. 379

VERIFICATION SUMMARY

DATE: 07/10/2002

PATENT APPLICATION: US/09/679,664 TIME: 11:06:29

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Output Set: N:\CRF3\07102002\1679664.raw

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